

Work Order ID 148656***148656***

Page 1

Wednesday, July 06, 2016 8:38:32 AM

Item ID: D4088-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: **6** Stop ***NS2***
Item Name: Shoulder Harness
Start Date: 6/28/2016 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 7/20/2016 Req'd Qty: 4.00 ***4*** Customer:
Reference: **DAS**

Approvals: Process Plan: **21** Date: **JUL 08 2016** Tooling: _____ Date: _____ Run Start ***NR1***
9-89 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4088	A								
100		0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 32981								
	Manufacture D4088-041 as per Dwg D4088								
	Supplier: AMSAFE INC.								
	Certificate of conformity is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.01							
Packaging									
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

4 **JUL 11 2016** **DAS 13 9-89**

6 **DAS 6 9-89** **AUG 15 2016**

2 **DAS 38 9-89** **AUG 17 2016**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																				
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																				
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																				
Large Fab ☐	Composite ☐	Supplier ☐																																																																					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																																
Description Work Order Deviation				Disposition				Completed By																																																															
								Lead hand / Supervisor Approval Verification																																																															
										QC / QA Coordinator Approval																																																													
Root Cause <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Environment ☐</td> <td style="border: none;">No Re-verification ☐</td> </tr> <tr> <td style="border: none;">Design ☐</td> <td style="border: none;">Operator ☐</td> </tr> <tr> <td style="border: none;">Doc/Data ☐</td> <td style="border: none;">Offset/Setup ☐</td> </tr> <tr> <td style="border: none;">Equip/Tooling ☐</td> <td style="border: none;">Supplier ☐</td> </tr> <tr> <td style="border: none;">Handling/Pre ☐</td> <td style="border: none;">Training ☐</td> </tr> <tr> <td style="border: none;">Material ☐</td> <td style="border: none;">Use for Testing ☐</td> </tr> <tr> <td style="border: none;">Internal Transport ☐</td> <td style="border: none;">Poor Information ☐</td> </tr> <tr> <td style="border: none;">Tribal Knowledge ☐</td> <td style="border: none;">Rushing ☐</td> </tr> <tr> <td style="border: none;">LOA ☐</td> <td style="border: none;">Product Improvement ☐</td> </tr> <tr> <td style="border: none;">Substation ☐</td> <td style="border: none;">Process Improvement ☐</td> </tr> <tr> <td style="border: none;">Past Expiry Date ☐</td> <td style="border: none;">Manufacturing Process ☐</td> </tr> <tr> <td style="border: none;">Misidentified ☐</td> <td style="border: none;">Past Due ☐</td> </tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Pressure/Forced ☐</td> <td style="border: none;">Temperature/Cure ☐</td> <td style="border: none;">Power Loss/Surge ☐</td> <td style="border: none;">Positioned Wrong ☐</td> </tr> <tr> <td style="border: none;">Bending ☐</td> <td style="border: none;">Set-up ☐</td> <td style="border: none;">Folio/Program ☐</td> <td style="border: none;">Outside Dimensions ☐</td> </tr> <tr> <td style="border: none;">Centre Not Concentric ☐</td> <td style="border: none;">BOM/Route ☐</td> <td style="border: none;">Grain ☐</td> <td style="border: none;">Over/Under tolerance ☐</td> </tr> <tr> <td style="border: none;">Cracks ☐</td> <td style="border: none;">Broken/Damage/Defect ☐</td> <td style="border: none;">Weld ☐</td> <td style="border: none;">Part Incorrect ☐</td> </tr> <tr> <td style="border: none;">Crimp/Kink/Ripple/Wave ☐</td> <td style="border: none;">Inspection Incomplete/Unqualified ☐</td> <td style="border: none;">Wrong Stock Pulled ☐</td> <td style="border: none;">Part Lost/Missing ☐</td> </tr> <tr> <td style="border: none;">Cuffs ☐</td> <td style="border: none;">Contamination ☐</td> <td style="border: none;">Out of Sequence ☐</td> <td style="border: none;">Part Moved ☐</td> </tr> <tr> <td style="border: none;">Crushing ☐</td> <td style="border: none;">Countersink ☐</td> <td style="border: none;">Off-set ☐</td> <td style="border: none;">Drawing ☐</td> </tr> <tr> <td style="border: none;">Heat Treat ☐</td> <td style="border: none;">Cut Too Short ☐</td> <td style="border: none;">Mislabeled ☐</td> <td style="border: none;">Finish ☐</td> </tr> <tr> <td style="border: none;">Wave/Twist in Tube ☐</td> <td style="border: none;">Instructions Incomplete/Unclear ☐</td> <td style="border: none;">Fit/Function ☐</td> <td style="border: none;">Misread ☐</td> </tr> <tr> <td style="border: none;">Marks/Chatter ☐</td> <td style="border: none;">Drill Holes ☐</td> <td style="border: none;">Misaligned/off center ☐</td> <td style="border: none;">Turning Sequence ☐</td> </tr> </table>						Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Environment ☐	No Re-verification ☐																																																																						
Design ☐	Operator ☐																																																																						
Doc/Data ☐	Offset/Setup ☐																																																																						
Equip/Tooling ☐	Supplier ☐																																																																						
Handling/Pre ☐	Training ☐																																																																						
Material ☐	Use for Testing ☐																																																																						
Internal Transport ☐	Poor Information ☐																																																																						
Tribal Knowledge ☐	Rushing ☐																																																																						
LOA ☐	Product Improvement ☐																																																																						
Substation ☐	Process Improvement ☐																																																																						
Past Expiry Date ☐	Manufacturing Process ☐																																																																						
Misidentified ☐	Past Due ☐																																																																						
Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																				
Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																				
Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																				
Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																				
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																				
Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																				
Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																				
Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																				
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																				
Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																				
		OTHER :																																																																					

Wednesday, July 06, 2016 8:38:32 AM

Page 2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location	0.00							
130	Packaging	0.01		DAS 6 9-89		(Signature)	Rc		AUG 18 2016
Packaging	Memo								
140	QC21- Final Inspection - Work Order Release	0.00					DAS 21 9-89	AUG 18 2016	
140	QC	0.07							
Quality Control	Memo								
							DAS 21 9-89	AUG 18 2016	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐						
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY								
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐			Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐			Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
		OTHER : ☐								

Picklist Print

Wednesday, July 06, 2016 8:38:32 AM

Page 1

Work Order ID: 148656

148656

Parent Item: D4088-041

D4088-041

Parent Item Name: Shoulder Harness

Start Date: 6/28/2016

Required Date: 7/20/2016

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE DD 10.04.29 VERIFIED:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
3221-1-011-2396		Purchased			No	110	Each	0.0000	1	4			
3221-1-011-2396									**				
Shoulder Harness													

DAS
6
9-89

AUG 15 2016

DQA: _____ Date: _____



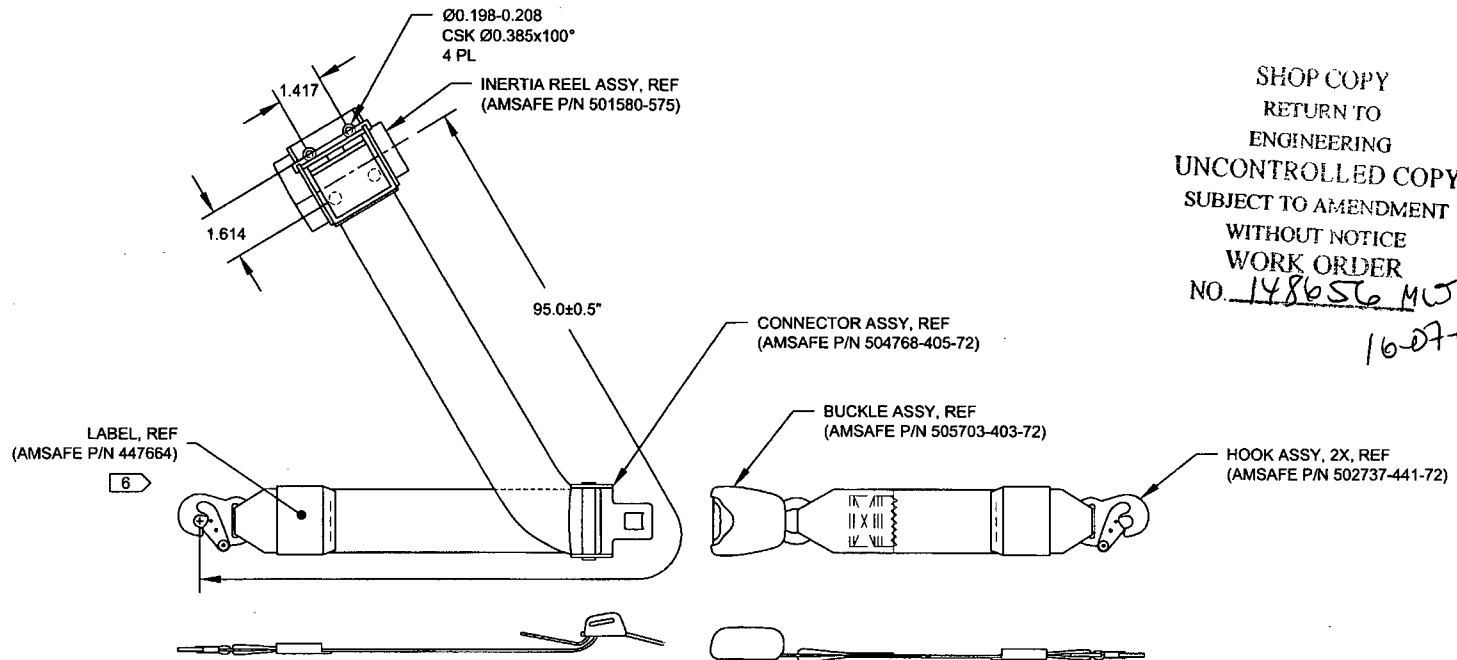
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																						
Large Fab ☐	Composite ☐	Supplier ☐																																																																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																																		
Description Work Order Deviation				Disposition				Completed By																																																																	
Root Cause				FAULT CATEGORY																																																																					
<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Environment ☐</td> <td style="border: none;">No Re-verification ☐</td> </tr> <tr> <td style="border: none;">Design ☐</td> <td style="border: none;">Operator ☐</td> </tr> <tr> <td style="border: none;">Doc/Data ☐</td> <td style="border: none;">Offset/Setup ☐</td> </tr> <tr> <td style="border: none;">Equip/Tooling ☐</td> <td style="border: none;">Supplier ☐</td> </tr> <tr> <td style="border: none;">Handling/Pre ☐</td> <td style="border: none;">Training ☐</td> </tr> <tr> <td style="border: none;">Material ☐</td> <td style="border: none;">Use for Testing ☐</td> </tr> <tr> <td style="border: none;">Internal Transport ☐</td> <td style="border: none;">Poor Information ☐</td> </tr> <tr> <td style="border: none;">Tribal Knowledge ☐</td> <td style="border: none;">Rushing ☐</td> </tr> <tr> <td style="border: none;">LOA ☐</td> <td style="border: none;">Product Improvement ☐</td> </tr> <tr> <td style="border: none;">Substation ☐</td> <td style="border: none;">Process Improvement ☐</td> </tr> <tr> <td style="border: none;">Past Expiry Date ☐</td> <td style="border: none;">Manufacturing Process ☐</td> </tr> <tr> <td style="border: none;">Misidentified ☐</td> <td style="border: none;">Past Due ☐</td> </tr> </table>				Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Pressure/Forced ☐</td> <td style="border: none;">Temperature/Cure ☐</td> <td style="border: none;">Power Loss/Surge ☐</td> <td style="border: none;">Positioned Wrong ☐</td> </tr> <tr> <td style="border: none;">Bending ☐</td> <td style="border: none;">Set-up ☐</td> <td style="border: none;">Folio/Program ☐</td> <td style="border: none;">Outside Dimensions ☐</td> </tr> <tr> <td style="border: none;">Centre Not Concentric ☐</td> <td style="border: none;">BOM/Route ☐</td> <td style="border: none;">Grain ☐</td> <td style="border: none;">Over/Under tolerance ☐</td> </tr> <tr> <td style="border: none;">Cracks ☐</td> <td style="border: none;">Broken/Damage/Defect ☐</td> <td style="border: none;">Weld ☐</td> <td style="border: none;">Part Incorrect ☐</td> </tr> <tr> <td style="border: none;">Crimp/Kink/Ripple/Wave ☐</td> <td style="border: none;">Inspection Incomplete/Unqualified ☐</td> <td style="border: none;">Wrong Stock Pulled ☐</td> <td style="border: none;">Part Lost/Missing ☐</td> </tr> <tr> <td style="border: none;">Cuffs ☐</td> <td style="border: none;">Contamination ☐</td> <td style="border: none;">Out of Sequence ☐</td> <td style="border: none;">Part Moved ☐</td> </tr> <tr> <td style="border: none;">Crushing ☐</td> <td style="border: none;">Countersink ☐</td> <td style="border: none;">Off-set ☐</td> <td style="border: none;">Drawing ☐</td> </tr> <tr> <td style="border: none;">Heat Treat ☐</td> <td style="border: none;">Cut Too Short ☐</td> <td style="border: none;">Mislabeled ☐</td> <td style="border: none;">Finish ☐</td> </tr> <tr> <td style="border: none;">Wave/Twist in Tube ☐</td> <td style="border: none;">Instructions Incomplete/Unclear ☐</td> <td style="border: none;">Fit/Function ☐</td> <td style="border: none;">Misread ☐</td> </tr> <tr> <td style="border: none;">Marks/Chatter ☐</td> <td style="border: none;">Drill Holes ☐</td> <td style="border: none;">Misaligned/off center ☐</td> <td style="border: none;">Turning Sequence ☐</td> </tr> </table>						Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Environment ☐	No Re-verification ☐																																																																								
Design ☐	Operator ☐																																																																								
Doc/Data ☐	Offset/Setup ☐																																																																								
Equip/Tooling ☐	Supplier ☐																																																																								
Handling/Pre ☐	Training ☐																																																																								
Material ☐	Use for Testing ☐																																																																								
Internal Transport ☐	Poor Information ☐																																																																								
Tribal Knowledge ☐	Rushing ☐																																																																								
LOA ☐	Product Improvement ☐																																																																								
Substation ☐	Process Improvement ☐																																																																								
Past Expiry Date ☐	Manufacturing Process ☐																																																																								
Misidentified ☐	Past Due ☐																																																																								
Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																						
Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																						
Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																						
Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																						
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																						
Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																						
Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																						
Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																						
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																						
Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																						
OTHER :																																																																									

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 148656 MW
16-07-08

D4088-041 SHOUDLER HARNESS

RELEASED
2010-04-27

NOTES:

- 1) PURCHASE: AMSAFE INC. P/N 3221-1-011-2396
3-POINT SHOULDER HARNESS WITH PUSH-BUTTON BUCKLE
MEETS REQUIREMENTS OF TSO-C114
CHROME HARDWARE PLATING AND BLACK WEBBING
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: LABEL TO CONTAIN THE FOLLOWING AT MINIMUM:
PART NO. 3221-1-011-2396
CUST P/N: D4088-041
RATED: 3000 LBS DATE OF MFG
CONFORMS TO TSO-C114
- 7) WEIGHT: 1.5 lbs

A NEW ISSUE		CP	10.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	99		
DRAWN	99		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.03.16		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D4088

TITLE SHOULDER HARNESS

REV. A
SHEET 1 OF 2
SCALE
NTS

COPYRIGHT © 2010 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32981

Purchase Order Date 7/11/2016 1:30:43 PM

PO Print Date 7/11/2016

Page Number 1 of 2

Order From :
AMSAFE INC.
1043 NORTH 47TH AVENUE
PHOENIX, AZ 85043
US

VU-AMS001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

Contact Name
Vendor Phone 602 850 2850

Ship To Contact

Ship To Phone

Ship Via: FedEx 2nd day collect

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

JUL 11 2016

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Ext
3	3221-1-011-2396 AS PER DWG D4088 REV. A B148656 AMSAFE P/N: 3221-1-011-2396	Shoulder Harness	7/29/2016 Yes 7/29/2016		8.00 Each	\$340.48	\$2
						Line Total:	\$2
7	71401-45 Procurement Quality Clauses A004 faa-pma/tso A005 right of entry A007 first article inspection A016 personnel qualification A026 certification of material conformance A040 notification of quality escape A041 quality management system A042 dart notification by supplier A043 retention of quality document	PROCUREMENT QUALITY CLAUSES	7/29/2016 No 7/29/2016		1.00	\$0.00	

1618/15
51

Note:

7/11/2016

AmSafe

1043 NORTH 47th AVENUE
PHOENIX, AZ 85043
PH (602)850-2850 FAX (602)850-2812

SHIPPER/CERTIFICATION



CUSTOMER NO.	SALES ORDER NO.	BOL NO.	DATE PRINTED	PAGE NO.
10006113	S336663	000420848	08/12/16	1

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY
HAWKESBURY, ON K6A 1K7
Canada

DART AEROSPACE LTD.
1270 ABERDEEN ST
HAWKSURY,, ON K6A 1K7
Canada

Ship to ID: 10006125

CUSTOMER ORDER NO.	TERMS	FREIGHT	SHIP VIA	F.O.B.
PO32981	NET30	COLLECT	FedEx Intl Economy	ORIGIN

Sales Order Remarks: 1517-9324-0

SHIPMENT REFERENCE 000420848

Remarks:

A004 - FAA-PMA/TSO ** ALL DART ORDERS SHOULD BE RETROFIT**
A005 - RIGHT OF ENTRY A007 FAI BY SELLER & MAINTAINED BY SELLER
A016 - PERSONAL QUALIFICATION
A026 - CERTIFICATION OF MATERIAL CONFORMANCE
A040 - NOTIFICATION OF QUALITY ESCAPE
A041 - QUALITY MANAGEMENT SYSTEM
A042 - DART NOTIFICATION BY SUPPLIER
A043 - RETENTION OF QUALITY DOCUMENT
DART HOLDS STC CERTIFICATE AND IS ALLOWED TO PURCHASE NON PMA PARTS

LINE	ITEM NUMBER / DESCRIPTION	DRAWING AND CERTIFICATIONS	DUE DATE	QTY ORDERED	QTY SHIPPED	QTY BACK ORDERED
1	D4088-041 REST SYS ASSY W/IR	DRAWING: 3221 REV: D CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S336663-1	2016-08-01 8.0	8 Expire Ref.	8	0

16/18/15
SL

I certify that the article(s) listed above conform to all applicable design data, and (as applicable):

FAA PMA, FMVSS 209, FMVSS 302, 14 CFR 25.853

FAA TSO C22f, C22g, C114 or TSO Plus

The conditions and tests required for TSO approval of the article(s) are minimum performance standards. It is the responsibility of those installing the article(s) either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the standards applicable to the TSO article including (when applicable) the integrated non-TSO function. The non-TSO function is described as the seat belt airbag system including the inflator cable assembly and electrical components that have not been evaluated for functionality or installation requirements. TSO articles including the integrated non-TSO function must have separate approval for installation in an aircraft. The article(s) may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements. Product shipped meets all material, processing and test requirements. Certifications/Test reports as applicable are retained on file at AmSafe Aviation.

AmSafe Authorized Signature: X

Jesse Ochoa

Printed Name:

Jesse Ochoa

AUG 12 2016

COUNTRY OF ORIGIN USA

COPY

1. Approving Civil Aviation Authority/Country: FAA/United States		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS-APPROVAL-TAG			3. Form Tracking Number S336663-1- <u>TE</u>	
4. Organization Name and Address: AmSafe, Inc. 1043 North 47th Avenue Phoenix, Arizona 85043		Cert. No. PT1967NM			5. Work order/Contract/Invoice Number: S336663 - 1 PAGES ATTACHED	
6 Item	7 Description	8 Part Number	9 Quantity	10 Serial Number	11 Status/Work	
1	REST SYS ASSY W/IR	3221-1-011-2396-	8	N/A	NEW	
12 Remarks Drawing: 3221 Rev: D TSO: TSO-C114 DATE CODE: <u>ADG116</u> CUSTOMER P/N: <u>D4098-041</u> EXPORT AIRWORTHINESS APPROVAL: THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF CANADA						
13a. Certifies the items identified above were manufactured in conformity to ☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 12.			14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature <u>Irene Gomez</u>		13c. Approval/Authorization No. ODA602112NM		14b. Authorized Signature		14c. Authorized/Certificate No
13d. Name (typed or printed) IRENE GOMEZ		13e. Date (dd/mm/yyyy) 12/AUG/2016		14d. Names (typed or printed)		14e. Date (dd/mm/yyyy)
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						



1043 North 47th Avenue
PHOENIX, AZ 85043
PH (602)850-2850 FAX (602)278-3479

INVOICE

Please remit to:
AmSafe, Inc.
Lockbox 911928
P.O. Box 31001-1928
Pasadena, CA 91110-1928

*** DUPLICATE ***

Customer No.	Invoice Date	Sales Order Number	Invoice Number	Purchase Order Number	Page No.
10006113	08/12/16	S336663	I421139	PO32981	1

BILL TO: DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

SHIP TO: DART AEROSPACE LTD.
1270 ABERDEEN ST
HAWKESBURY,, ON K6A 1K7
Canada

SOLD TO: DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

REMARKS:
1517-9324-0

Freight

COLLECT

COMMENTS:

A004 - FAA-PMA/TSO ** ALL DART ORDERS SHOULD BE RETROFIT***
A005 - RIGHT OF ENTRY A007 FAI BY SELLER & MAINTAINED BY SELLER
A016 - PERSONAL QUALIFICATION
A026 - CERTIFICATION OF MATERIAL CONFORMANCE
A040 - NOTIFICATION OF QUALITY ESCAPE
A041 - QUALITY MANAGEMENT SYSTEM
A042 - DART NOTIFICATION BY SUPPLIER
A043 - RETENTION OF QUALITY DOCUMENT
DART HOLDS STC CERTIFICATE AND IS ALLOWED TO PURCHASE NON PMA PARTS

TERMS NET30	ORDER DATE 07/11/16	SALESPERSON BLEAKE	SHIP DATE 08/12/16	SHIP VIA FedEx Intl Economy	TRACKING # 679232180711	FOB POINT ORIGIN			
LINE NO.	ITEM	DESCRIPTION	UM	QUANTITY			T A	UNIT PRICE	EXTENDED AMOUNT
			LOT	BACK ORD.	SHIPPED	X			
1	3221-1-011-2396	DRAWING: 3221 REV: D Customer P/N: D4088-041 REST SYS ASSY W/IR	EA		0.0	8.0	N	340.48 USD	2,723.84 USD
				S336663-1			TSO-C114		

Non-Taxable: 2,723.84 USD

Line Total: 2,723.84 USD

Total Taxable:

The undersigned, exporter/supplier of goods listed in this invoice/document, declares that according to the rule being valid in the European Union, the origin of these goods is the United States of America.

Signature: Jesse Ochoa Date: AUG 12 2016 Phoenix, Arizona, USA

Sales Tax:
Total: 2,723.84 USD

AmSafe, Inc. Terms and Conditions of Sale

1 GENERAL

For purposes of these Terms and Conditions of Sale, the term "Agreement" shall mean any agreement arising as a result of Buyer's submission of a Purchase Order for Seller's products (the "Products"), and Seller's acceptance of said order. Any such Agreement or Purchase Order shall be deemed to be incorporated herein and governed by these Terms and Conditions of Sale. Seller's or Buyer's failure to object to any provision contained in any communication from Seller or Buyer shall not be construed as a waiver or modification of these Terms and Conditions of Sale or as an acceptance of any such provision. Acceptance by Buyer of this Sales Order is expressly conditioned on Buyer's assent to the Terms and Conditions of Sale contained herein. Retention by Buyer of any Products delivered by Seller, or payment by Buyer of any invoice rendered hereunder shall be conclusively deemed acceptance of these Terms and Conditions of Sale.

2 ACCEPTANCE

All purchases of Products are subject to issuance of a Purchase Order by Buyer ("Order") and the acceptance of the same by Seller. Orders are accepted subject to when available at the price quoted at the date of acceptance of the Order. Orders will be processed with every effort to meet the required shipping date, but Seller is not obligated to make delivery at any specified date nor liable for damage due to delay in filling the Order. Specified shipping dates are our best estimates but are not guarantees, and Buyer is at liberty to cancel for unreasonable delays, by written notice to Seller, unless the Order is of special processing and stated as non-cancelable.

3 CANCELLATION

Buyer shall provide a ninety (90) day written notice prior to any cancellation, modification, suspension or deferral of any Order to Seller; provided, however, in all events Buyer shall indemnify and hold Seller harmless against any and all losses incurred by Seller as a result of any cancellation, changes, modifications, suspensions or deferrals of the Order.

4 TERMS OF PAYMENT

Payment terms are net thirty (30) days from the date of invoice date subject to Seller's approval of Buyer's credit and the terms and conditions contained herein. If Seller grants credit to Buyer and Buyer defaults in making any payments to Seller under this Agreement, or under any other agreement between the parties, Seller may charge interest at the rate of the lower of eighteen percent (18%) per annum or the maximum amount permitted by law on unpaid accounts after thirty (30) days from the date of invoice. In any action to collect an unpaid account, Buyer will pay all of Seller's costs, including reasonable attorneys' fee. Seller may also defer further shipments under this Agreement and all other agreements between the parties until all payments in default under any agreement between the parties are paid in full and Seller may, at its sole and absolute discretion, cancel the unshipped balance of any Products still required to be shipped under this Agreement or any other agreement between the parties. In addition to the foregoing, if Buyer fails to make any payment to Seller under this Agreement or any other agreement between Buyer and Seller in a timely manner, or if Seller determines that Buyer presents an unreasonable credit risk to Seller, Seller may amend the credit terms granted to Buyer (including, without limitation, requiring payment in full upon delivery) for all future Orders upon written notice to Buyer.

5 UNFORSEEN CONTINGENCIES

Seller shall not be responsible for any loss, delay or non-fulfillment under this Agreement due to war, fire, flood, strike, labor troubles, accident, riot, act of Government authority, act of God, or other contingencies beyond the control of the Parties interfering with production, supply, or source of raw materials affecting Orders.

6 INTELLECTUAL PROPERTY

Any and all intellectual property regarding the Products and their design, modification, and/or improvements are the sole property of Seller and no license or other conveyance is made to Buyer of any Seller intellectual property.

7 ERRORS AND OMISSIONS

Seller and Buyer may correct clerical errors and omissions in any documentation of their own documents. No change shall be made to any document without the prior written consent of the party who generated the document.

8 CHANGES

Seller shall confirm changes requested by Buyer and the effect of those changes on delivery schedule and/or additional cost. Upon written acceptance of changes requested by Buyer, and written acknowledgment of changes to delivery schedule and/or cost, Seller shall proceed.

9 REJECTIONS AND RETURNS, CLAIMS

Claims for errors, deficiencies or imperfections in any Order shipped to Buyer hereunder shall not be considered unless made within thirty (30) days after receipt of the applicable Product by Buyer and failure to do so shall be deemed a waiver by the Buyer with respect thereto. In the event Buyer discovers non-conforming Products, which Buyer properly used for the purpose for which sold, Seller shall, at Seller's sole and exclusive discretion, either repair, replace or credit Buyer for the price of such non-conforming Product upon receipt of same from Buyer; provided, however, Seller shall not be liable for any claims for labor or consequential damages and Products may not be returned except by permission of Seller. These remedies are the exclusive remedies of Buyer. Products will not be accepted for return or credit unless so authorized by Seller. Except for non-conforming Products, any Products returned for credit will be subject to handling charges covering necessary re-inspection and restocking. Claims for shortage must be made in writing within ten (10) days after receipt of the Order subject to this Agreement. Seller accepts no responsibility for breakage, damage or losses occurring after delivery by Seller to carrier, to which all such claims must be referred directly.

10 SHIPPING

All shipping charges for Buyer's order shall be the responsibility of Buyer. Unless instructed on shipping method, placement of values and carrier, Products will be shipped EXW (INCOTERMS 2010) Seller's facility by method and carrier of Seller's choice. Transfer of title and risk of loss shall pass to Buyer upon delivery of Products to the carrier at Seller's facility. No extra charge shall be made for packaging and packing required for domestic shipment. Special packaging or special handling expense shall be added to the invoice unless such charges are included in the price quoted.

11 TAXES

The purchase price set forth above does not include any taxes, which are the sole and exclusive responsibility of, and which shall be paid by, Buyer. The purchase price set forth above shall be subject to increase without notice by the amount of any sales, use or excise tax levied or charged either by the Federal, State, County, City or other Government agency.

12 LIMITED WARRANTY; DISCLAIMER OF WARRANTIES.

a) The workmanship, material, and performance of the Products are warranted to be commensurate with the levels established in the applicable documents or specifications referenced on the Purchase Order and issued by public or private bodies with duly constituted authority and in the absence of specific reference to such documents or specifications to be free of material defects in workmanship and materials. If reported defects in material or workmanship are substantiated by Seller, such parts and materials as are affected will be replaced or repaired by Seller at its discretion. This warranty is limited to defects which arise within three (3) years of the date of delivery, except claims for non-conforming textile materials must be presented to Seller, in writing, within one (1) year of the date of delivery.

b) In no event shall Seller be liable for:

- Non-conformity of products due to Buyer's or Buyer's representative's negligence, accident, abuse, improper care or storage, abnormal temperature or moisture conditions;
- Damage to products which have been tampered with or altered by Buyer or Buyer's representative in any way other than by Seller or with Seller's instructions;
- Any specifications provided to Seller by Buyer; or
- Expenses incurred by Buyer in attempting to correct any defects in or non-conformity of Products unless upon Seller's instructions or approval.

c) Seller's liability is expressly limited to the repair or replacement by Seller at Seller's option and cannot be extended to damages, expense, or loss arising from the use of, or inability to use, Seller's Products.

THE WARRANTIES, OBLIGATIONS AND LIABILITIES SET FORTH IN THE AGREEMENT (INCLUDING THESE TERMS AND CONDITIONS OF SALE), AND ALL RIGHTS, CLAIMS AND REMEDIES OF BUYER SET FORTH HEREIN, ARE EXCLUSIVE AND IN SUBSTITUTION FOR, ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NONCONFORMANCE OR DEFECT IN THE PRODUCTS OR SERVICES PROVIDED UNDER ANY PURCHASE ORDER, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE; ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY ARISING FROM THE NEGLIGENCE OF SELLER OR ANY MANUFACTURER OF AIRCRAFT INCORPORATING THE PRODUCTS; AND ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY FOR LOSS OR DAMAGE TO ANY AIRCRAFT.

13 LIMITATION OF LIABILITY, DAMAGES

SELLER'S AGGREGATE LIABILITIES TO BUYER ARISING OUT OF OR RELATING TO ANY PRODUCTS PURCHASED HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE ACTUALLY RECEIVED BY SELLER FOR THE PRODUCTS AT ISSUE. SELLER SHALL NOT BE LIABLE FOR INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE, INDIRECT OR REMOTE DAMAGES, INCLUDING LOSS OF PROFITS OR LOSS OF USE, OR FOR EXEMPLARY OR OTHER SPECIAL DAMAGES, HOWEVER STYLED, WHETHER ARISING UNDER THIS AGREEMENT OR OTHERWISE. BUYER HEREBY AGREES ITS EXCLUSIVE REMEDIES ARE SET FORTH IN THIS AGREEMENT.

14 GOVERNMENTAL REGULATIONS

Shipment and delivery are subject to any United States or foreign legal requirements, which may prevent, delay or interfere with fulfillment of an Order. Buyer and Seller shall comply with all applicable United States and foreign laws and regulations governing the import and/or export or re-export of all Product(s), including without limitation the U.S. Export Administration Regulations, the International Traffic in Arms Regulations and any regulations administered by the Department of the Treasury's Office of Foreign Assets. Without limiting the generality of the foregoing, Buyer will not export or re-export, directly or indirectly any of the Product(s) to any country restricted by the United States, unless with the prior consent of Seller or the Department of the Treasury's Office of Foreign Affairs.

15 INDEMNITY

Buyer hereby indemnifies and holds Seller harmless in the event of any claim, demand, suit, cause of action, proceeding, award, judgment or liability against Seller, including, without limitation, attorneys' fees, based upon, arising out of or in any way related to: any negligent act or omission by Buyer or any of its agents, contractors, servants or employees, including without limitation, (1) claims that the Product(s) failed to meet any specification provided by the Buyer and, (2) claims arising out of Buyer's non-compliance with any applicable governmental law or regulation with respect to the export, re-export or importation of the Product(s). For purposes of this Agreement, "claims" shall include, but not be limited to litigation or arbitration.

16 GOVERNING LAW

These Terms and Conditions of Sale shall be governed by and construed in accordance with the substantive law of the State of Arizona, without reference to its conflicts of law rules and specifically excluding the provisions of the 1980 U.N. Convention on Contracts for the International Sale of Goods. Venue for any dispute hereunder shall lie in the state and federal courts of Phoenix, Arizona.

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: S336663 - 1 <i>TG</i>	
4. Organization Name and Address: AmSafe, Inc. 1043 North 47th Avenue Phoenix, Arizona 85043		Cert. No. PT1967NM			5. Work order/Contract/Invoice Number: S336663 - 1 <i>10</i> PAGES ATTACHED	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	REST SYS ASSY W/IR	3221-1-011-2396	8	N/A	NEW	
12. Remarks: Drawing: 3221 Rev: D TSO: TSO-C114 DATE CODE: <u>AD0810</u> CUSTOMER P/N: <u>D4088-041</u>						
EXPORT AIRWORTHINESS APPROVAL: THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF CANADA						
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 12.			14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA602112NM		14b. Authorized Signature		14c. Authorized/Certificate No.
13d. Name (typed or printed) IRENE GOMEZ		13e. Date (dd/mm/yyyy): 12/AUG/2010		14d. Names (typed or printed)		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						



Material Burn Test Data and Report Record

For Horizontal Burn Test procedure. Meets ASI Specification E503661 Rev. F, FAR 25.853a
And Bell Helicopter Textron Test Specification 299-947-160 Rev. D

1.0 Material

Part No: 502396 Lot No: 481978 Description: BLACK
Rev Level: I

2.0 Material Specimen Dimensions (inches)

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Sample 3</u>
Length:	13.00	13.00	13.00
Width:	1.91	1.90	1.90
Thickness:	0.05	0.05	0.05

3.0 Material Burn Rate Calculation

- 3.1 If the material does not ignite, the result is an immediate pass with an average burn rate of 0.00 in/min.
- 3.2 In the event that the webbing does ignite but self-extinguishes before it reaches the 1.5 inch gauge line, the result is passing.
- 3.3 If the material does ignite and burn past the 1.5 inch gauge line but self-extinguishes prior to reaching the 11.5 inch gauge line within 4 minutes, the burn rate may be calculated by the following equation:

$$\text{Burn Rate} = \frac{\text{Sample Length (in)} - \text{Material Remaining After Burn (in)} - 1.5(\text{in})}{\text{Total Burn Duration (min)} - \text{Time to reach 1.5in Gauge Line (min)}} = \frac{\text{Sample Length (in)} - L_r(\text{in}) - 1.5(\text{in})}{t_f - t_{1.5}}$$

Where:

t_f = Time (in minutes) for flame to reach the 11.5 inch gauge line or to extinguish if past the 1.5 inch gauge line

L_r = Length (in inches) of material remaining after burning

$t_{1.5}$ = Time (in minutes) for flame front to cross the 1.5 inch gauge line

If the material does not extinguish before the 11.5 in gauge line within 4 minutes, the burn rate may be calculated as follows:

3.4

$$\text{Burn Rate} = \frac{\text{Sample Length (in)} - 1.5(\text{in})}{4(\text{min}) - \text{Time to reach 1.5in Gauge Line (min)}} = \frac{\text{Sample Length (in)} - 1.5(\text{in})}{t_f - t_{1.5}}$$

4.0 Results

Sample No.	Flame Temp (>1550°F)	$t_{1.5}$ (Min)	t_f (Min)	L_r (in)	Burn Rate (in/min)	Note
1	1610	0.00	0.00	N/A	0.00	SELF-EXTINGUISHED
2	1622	0.00	0.00	N/A	0.00	SELF-EXTINGUISHED
3	1644	0.00	0.00	N/A	0.00	SELF-EXTINGUISHED

Maximum allowable average burn rate: 2.5 in/min*

Average: 0.00
Results: PASS

Technician: Marisol C



Date: June 16, 2016

*When the part is smaller than 12 inches in length and the burn rate is less than 2.5 inches/minute, but greater than 0.5 inches/minute. For small or non-webbing parts refer to Form A-135 Flammability Report for Non-Webbing.